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# Sculpture Plus Composite MSDS

## Section 1: Product and Company Identification

Product Name: Sculpture® Plus Nano-Hybrid Indirect Restorative Composites (Body, Incisal, Opaque Body, Neck Paste, Range Modifier)

Material Safety Sheet Number: 00201

Date of Issue: 3/08/03

Revision Date: Not applicable

### Company Identification:

Pentron® Laboratory Technologies, LLC

P.O. Box 724, Wallingford, CT U.S.A. 06492

Phone: 800-243-3100 / 203-265-7397

Emergency Information Chemtrec:

800-424-9300

Chemtrec International: 202-483-7616

## 2. Composition/Information on Ingredients

Chemical Characteristics: A blend of difunctional methacrylates of PCBisGMA, EBPA/DMMA, BISGMA, UDMA and HDMMA; silanated fillers such as barium boro-silicate glass; nano-particulated silica, zirconium silicate; photoinitiator, accelerator, stabilizer and pigments.

\*contains a small amount of  $\text{Al}_2\text{O}_3$

## 3. Hazard Identification

Risk Identification: Avoid eye contact and ingestion.

Special Risks for Human Beings and Environment: Avoid prolonged skin contact with uncured material. Adequate ventilation.

Classification: Classification corresponds to actual EEC guidelines.

## 4. First Aid Measures

### General Information:

After skin contact: Wash with plenty of water and soap.

After eye contact: Rinse with plenty of water and consult a physician.

After swallowing: Seek medical advice immediately.

## 5. Fire Fighting Measures

Extinguishing Media:  $\text{CO}_2$ , water

Protective Equipment: Unknown

## 6. Accidental Release Measures

Personal Precautions: Protective gloves, goggles and others are recommended.

Environmental Precautions: Unknown

Methods for Cleaning Up: Wipe up with absorbent material.

Additional Information: Unknown

## 7. Handling and Storage

Storage: Store in a dry and cool place below 75°. Protect from light source. Do not store in sunlit or hot areas. Store away from foodstuffs.

## 8. Exposure Controls/Personal Protection

Additional Information for Technical Plants: Unknown

### Components with Limits of Values to be Supervised at the Workplace:

Unknown. The product contains no relevant quantities of components with limits of values to be supervised at the workplace.

### Additional Information:

Personal protective equipment: Protective gloves, goggles are recommended

General measure of protection and hygiene: Normal hygienic measures

Respiration: Not applicable

Hands: Protective gloves

Eyes: OSHA approved goggles

## 9. Physical/Chemical Properties

### Appearance:

Form: Viscous paste

Color: Tooth colored

Odor: Slight ester-like odor

Melting Point/Melting Range: Not applicable

Boiling Point/Boiling Range: Not applicable

Flash Point: Not applicable

Autoignition Temperature: Unknown

Danger of Explosion: Not likely

Density: c.a. 1.8-1.9 g/cm<sup>3</sup>

Vapor Pressure: Not applicable

Viscosity: Paste

pH: Not applicable

Solubility in/Miscibility with Water: None

Content of Solvents: None

Organic Solvents: None

Water: None

Content of solids: >70%

## 10. Stability and Reactivity

Stability: Avoid heat, direct sunlight.

Incompatibility With Other Substances: Avoid peroxides, strong oxidizers, reducing agents and free radical initiators.

Hazardous Decomposition Products: Not known

## 11. Toxicological Information

Allergic reaction to users and patients with known sensitivity to any ingredients of this composite is possible. The products are non-cytotoxic

Acute Toxicity: Not available

### Primary Irritation:

Skin Contact: Yes. Skin absorption: Unknown.

Eye Irritating:

Inhalation: Non volatile

Ingestion: Possibly toxic when swallowed in excess amounts in the uncured state.

Sensitization of Product: Not observed

Additional Toxicological Information: Non-mutagenic

## 12. Ecological Information

General Information: Unknown

Classification of Water Endangerment: Unknown

## 13. Disposal Considerations

Product Recommendation: Use proper landfill disposal or incineration in accordance with local, state, and federal regulations.

Disposal Key Number: Unknown

Uncleaned Packaging: Unknown

Recommendation: Unknown

## 14. Transport Information

RID/ADR: Not a hazardous material

## 15. Regulatory Information

Classification According to EEC Guidelines: No classification necessary to actual EEC guidelines

National Prescriptions: Unknown

Classification according to VBF: Not applicable

## 16. Other Information

Revision Summary: No revisions have been made.

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# Sculpture Plus Color Paste MSDS

## Section 1: Product and Company Identification

Product Name: Sculpture® Plus Color Paste

Material Safety Sheet Number: 00202

Date of Issue: 3/8/03

Revision Date: Not applicable

### Company Identification:

Pentron® Laboratory Technologies, LLC

P.O. Box 724, Wallingford, CT U.S.A. 06492

Phone: 800-551-0283 / 203-265-7397

Emergency Information Chemtrec: 800-424-9300

Chemtrec International: 202-483-7616

## Section 2: Composition/Information on Ingredients

Chemical Characteristics: A blend of difunctional methacrylates of PCBisGMA, EBPADMA, PCDMA, BisGMA, UDMA and HDDMA, fillers, curing agents, UV stabilizers, FDA & FDC approved pigments.

## Section 3: Hazard Identification

Risk Identification: None known in the cured form

Special Risks for Human Beings and Environment: Sensitivity to its ingredients

## Section 4: First Aid Measures

General Information:

After skin contact: Wash with plenty of water and soap.

After eye contact: Rinse with plenty of water and consult an Ophthalmologist.

After swallowing: Seek medical advice immediately. Allow normal vomiting and fresh air. Administer oxygen/perform CPR if required.

## Section 5: Fire Fighting Measures

Extinguishing Media: CO<sub>2</sub>, sand, vermiculite/soda ash/foam for absorbance and fire retardance

Protective Equipment: Protective clothing and gear including a self-contained breathing apparatus

## Section 6: Accidental Release Measures

Personal Precautions: Protective gloves, goggles and others are recommended

Environmental Precautions: Unknown

Methods for Cleaning Up: Wipe up with absorbent material or cure it with a visible light source and dispose the cured material as per local disposal codes.

Additional Information: Unknown

## Section 7: Handling and Storage

Storage: Store in a dry and cool place. Protect from light source. Do not store in high heat areas. Store away from foodstuffs.

## Section 8: Exposure Controls and Personal Protection

Personal Protective Equipment: Protective gloves, goggles are recommended

General Measure of Protection and Hygiene: normal hygienic measures

Respiration: Use adequate general and local ventilation and OSHA approved respirators.

Hands: Protective gloves

Eyes: OSHA approved goggles

## Section 9: Physical and Chemical Properties

Appearance:

Form: viscous paste

Color: varying

Odor: ester-like odor

Flash Point: >150°C (>300°F)

Autoignition Temperature: >260°C (>500°F)

Danger of Explosion: Not likely

Density: c.a. 1.12 g/cm<sup>3</sup>

pH: Not applicable

## Section 10: Stability and Reactivity

Stability: Avoid heat, direct sunlight.

Incompatibility With Other Substances: Avoid peroxides, strong oxidizers, reducing agents and free radical initiators. Will polymerize with light exposures (400-700nm wavelength). Insoluble in water in the polymerized state.

## Section 11: Toxicological Information

Allergic reaction to methacrylate by chronic exposure to product is possible.

Acute Toxicity: Not available

Primary Irritation:

Skin Contact: Yes. Skin absorption: Unknown

Eye: Irritating

Inhalation: Non-volatile

Ingestion: Possibly toxic when swallowed

Additional Toxicological Information: Non-mutagenic

## Section 12: Ecological Information

General Information: Unknown

Classification of Water Endangerment: Unknown

## Section 13: Disposal Considerations

Recommendation: Use proper landfill disposal or incineration in accordance with local, state, and federal regulations.

Disposal Key Number: UNKNC:vn

Uncleaned Packaging: Unknown

Recommendation: Unknown

## Section 14: Transport Information

RID/ADR: Not a hazardous material

## Section 15: Regulatory Information

Not available

## Section 16: Other Information

Revision Summary: No revisions have been made.

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# Sculpture® Plus LP Glaz MSDS

## 1. Chemical Product and Contact Information

Product Name: Sculpture® Plus LP Glaz

Material Safety Sheet Number: 00199

Date of Issue: 3/8/03

Revision Date: Not applicable

### Company Identification:

Pentron® Laboratory Technologies, LLC

P.O. Box 724, Wallingford, CT 06492 U.S.A.

Phone: 800-551-0283 / 203-265-7397

Emergency Information Chemtrec: 800-424-9300

Chemtrec International: 202-483-7616

## 2. Composition/Information on Ingredients

Proprietary mixture of various methacrylates with acetone and light curing activators

Acetone: less than 50%

Methyl Methacrylates: less than 10%

## 3. Hazard Identification

Risk Identification: None known

Special Risks for Human Beings and Environment: Sensitivity to its ingredients

## 4. First Aid Measures

### General Information:

After skin contact: Wash with plenty of water and soap.

After eye contact: Rinse with plenty of water and consult an Ophthalmologist.

After swallowing: Seek medical advice immediately. Allow normal vomiting and fresh air. Administer oxygen/perform CPR if required.

## 5. Fire Fighting Measures

Extinguishing Media: CO<sub>2</sub>, sand, vermiculite/soda ash/foam for absorbance and fire deterrence

Protective Equipment: Protective clothing and gear including a self-contained breathing apparatus

## 6. Accidental Release Measures

Personal Precautions: Protective gloves, goggles and others are recommended

Environmental Precautions: Unknown

Methods for Cleaning Up: Wipe up with absorbent material

Additional Information: Unknown

## 7. Handling and Storage

Storage: Store in a dry and cool place. Protect from light source. Do not store in high heat areas. Store away from foodstuffs.

## 8. Exposure Controls/Personal Protection

Personal Protective Equipment: Protective gloves, goggles are recommended

General Measure of Protection and Hygiene: Normal hygienic measures

Respiration: Use adequate general and local ventilation and OSHA approved respirators.

Hands: Protective gloves

Eyes: OSHA approved goggles

## 9. Physical and Chemical Properties

### Appearance:

Form: liquid

Color: Slightly yellow

Odor: ester-like odor

Flash Point: -26°C (-15°F)

Autoignition Temperature: 538°C (1000°F)

Danger of Explosion: Not likely

Density: C.6.1 03 g/cm<sup>3</sup>

pH: Not applicable

Solubility in/Miscibility with Water: None

Content of Solvents: <50%

Content of Solids: 0%

## 10. Stability And Reactivity

Stable. Avoid heat, direct sunlight.

Incompatibility With Other Substances: Avoid peroxides, strong oxidizers, reducing agents and free radical initiators. Will polymerize with light exposures (400-700nm wavelength). Insoluble in water in the polymerized state.

## 11. Toxicological Information

Allergic reaction to methacrylate by chronic exposure to product is possible.

Acute Toxicity: Not available

Primary Irritation:

  Skin Contact: Yes. Skin absorption: Unknown.

  Eye: Irritating.

  Inhalation: Non volatile

  Ingestion: Possibly toxic when swallowed

Additional Toxicological Information: Non-mutagenic

## 12. Ecological Information

General Information: Unknown

Classification of Water Endangerment: Unknown

## 13. Disposal Considerations

Recommendation: Use proper landfill disposal or incineration in accordance with local, state, and federal regulations.

Disposal Key Number: Unknown

Uncleaned Packaging: Unknown

Recommendation: Unknown

## 14. Transport Information

RID/ADR: Not a hazardous material.

## 15. Regulatory Information

Not available

## 16. Other Information

Revision Summary: No revisions have been made.

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# Sculpture Glo® MSDS

# Polish

## Section 1: Product and Company Identification

**Product Name:** Sculpture Glo®  
**Material Safety Sheet Number:** 00197

**Date of Issue:** 3/8/03

**Revision Date:** Not applicable

### **Company Identification:**

Pentron® Laboratory Technologies, LLC  
 P.O. Box 724, Wallingford CT 06492 U.S.A.  
 Phone: 800-551-0283 / 203-265-7397  
 Emergency Information Chemtree: 800-424-9300  
 Chemtrec International: 202-483-7516

## Section 2: Composition/Information on Ingredients

A proprietary mixture of aluminum oxide, silicon oxides and wax binders.

## Section 3: Hazard Identification

**Risk Identification:** None known

**Special Risks for Human Beings and Environment:** Sensitivity to its ingredients, none to environment.

## Section 4: First Aid Measures

### **General Information:**

**After skin contact:** Wash with plenty of water and soap

**After eye contact:** Rinse with plenty of water

**After swallowing:** Seek medical advice immediately. Allow normal vomiting and fresh air. Administer oxygen/perform CPR if required

## Section 5: Fire Fighting Measures

**Extinguishing Media:** water, mist, CO<sub>2</sub>, sand, vermiculite/soda ash/foam for absorbance and fire deterrence

**Protective Equipment:** Protective clothing and gear including a self-contained breathing apparatus

## Section 6: Accidental Release Measures

**Personal Precautions:** Protective gloves, goggles and others are recommended

**Environmental Precautions:** Unknown.

Methods for cleaning up: none; sweep into a container and dispose as per local disposal codes.

**Additional Information:** Unknown

## Section 7: Handling and Storage

**Storage:** No special storage. Do not place near heat.

## Section 8: Exposure Controls/Personal Protection

**Personal Protective Equipment:** No special equipment

**General Measure of Protection and Hygiene:** Normal hygienic measures

**Respiration:** Use adequate general and local ventilation and OSHA approved respirators.

**Eyes:** OSHA approved goggles

## Section 9: Physical and Chemical Properties

### **Appearance:**

**Form:** semi-solid paste

**Color:** slightly tan

**Odor:** none

**Flash point:** >150°C (>300°F)

**Autoignition Temperature:**

>260°C (>500°F)

**Danger of Explosion:** Not likely

**Density:** c.a. 1.75 g/cm<sup>3</sup>

**pH:** Not applicable

## Section 10: Stability and Reactivity

**Stability:** Avoid heat, direct sunlight.

**Incompatibility with other substances:** Avoid peroxides, strong oxidizers, reducing agents and free radical initiators. Insoluble in water

## Section 11: Toxicological Information

**Allergic Reaction:** None known

**Acute Toxicity:** Not available

### **Primary Irritation:**

**Skin Contact:** Skin absorption: Unknown.

**Eye Irritation:**

**Inhalation:** Non volatile

**Ingestion:** Non-toxic

### **Additional Toxicological Information:**

Non-mutagenic

## Section 12: Ecological Information

**General Information:** stable, inert

**Classification of Water Endangerment:** None known

## Section 13: Disposal Considerations

**Recommendation:** Use proper landfill disposal or incineration in accordance with local, state, and federal regulations.

**Disposal Key Number:** Unknown

**Uncleaned Packaging:** Unknown

**Recommendation:** Unknown

## Section 14: Transport Information

**RID/ADR:** Not a hazardous material

## Section 15: Regulatory Information

Not available

## Section 16: Other Information

**Revision Summary:** No revisions have been made.

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# Sculpture Plus Thinning Liquid MSDS

## Section 1: Product and Company Identification

Product Name: Sculpture® Plus Thinning Liquid

Material Safety Sheet Number: 00200

Date of Issue: 3/8/03

Revision Date: Not applicable

### Company Identification:

Pentron® Laboratory Technologies, LLC

P.O. Box 724, Wallingford, CT 06492 U.S.A.

Phone: 800-551-0283 / 203-265-7397

Emergency Information Chemtrec: 800-424-9300

Chemtrec International: 202-483-7616

## Section 2: Composition/Information on Ingredients

**Chemical Characteristics:** A blend of difunctional methacrylates of PCBisGMA, EBPAcDMA, PCDMA, BisGMA, UDMA and HDDMA, curing agents and UV stabilizers.

## Section 3: Hazard Identification

**Risk Identification:** None known in the cured form

**Special Risks for Human Beings and Environment:** Sensitivity to its ingredients

## Section 4: First Aid Measures

### General Information:

**After skin contact:** Wash with plenty of water and soap.

**After eye contact:** Rinse with plenty of water and consult an Ophthalmologist.

**After swallowing:** Seek medical advice immediately. Allow normal vomiting and fresh air. Administer oxygen/perform CPR if required.

## Section 5: Fire Fighting Measures

**Extinguishing Media:** CO<sub>2</sub>, sand,

vermiculite/soda ash/foam for absorbance and fire deterrence

**Protective Equipment:** Protective clothing and gear including a self-contained breathing apparatus

## Section 6: Accidental Release Measures

**Personal Precautions:** Protective gloves, goggles and others are recommended

**Environmental Precautions:** Unknown

**Methods for Cleaning Up:** Wipe up with absorbent material or cure it with a visible light source and dispose the cured material as per local disposal codes.

**Additional Information:** Unknown

## Section 7: Handling and Storage

**Storage:** Store in a dry and cool place. Protect from light source. Do not store in high heat areas. Store away from foodstuffs.

## Section 8: Exposure Controls/Personal Protection

**Personal Protective Equipment:** Protective gloves, goggles are recommended

**General Measure of Protection and Hygiene:** Normal hygienic measures

**Respiration:** Use adequate general and local ventilation and OSHA approved respirators

**Hands:** Protective gloves

**Eyes:** OSHA approved goggles

## Section 9: Physical and Chemical Properties

### Appearance:

**Form:** Liquid

**Color:** Slightly yellow

**Odor:** Ester-like odor

**Flash Point:** >150°C (>300°F)

**Autoignition Temperature:** >260°C (>500°F)

**Danger of Explosion:** Not likely

**Density:** c.a. 1.10 g/cm<sup>3</sup>

**pH:** Not applicable

## Section 10: Stability and Reactivity

**Stability:** Avoid heat, direct sunlight.

**Incompatibility With Other Substances:** Avoid peroxides, strong oxidizers, reducing agents and free radical initiators. Will polymerize with light exposures (400-700nm wavelength). Insoluble in water in the polymerized state.

## Section 11: Toxicological Information

Allergic reaction to methacrylate by chronic exposure to product is possible.

**Acute Toxicity:** Not available

### Primary Irritation:

**Skin Contact:** Yes. **Skin absorption:** Unknown.

**Eye:** Irritating

**Inhalation:** Non volatile

**Ingestion:** Possibly toxic when swallowed

**Additional Toxicological Information:**  
Non-mutagenic

## Section 12: Ecological Information

**General Information:** Unknown

**Classification of Water Endangerment:** Unknown

## Section 13: Disposal Considerations

**Recommendation:** Use proper landfill disposal or incineration in accordance with local, state, and federal regulations.

**Disposal Key Number:** Unknown

**Uncleaned Packaging:** Unknown

**Recommendation:** Unknown

## Section 14: Transport Information

**RID/ADR:** Not a hazardous material

## Section 15: Regulatory Information

Not available

## Section 16: Other Information

**Revision Summary:** No revisions have been made

The information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof. Pentron® Laboratory Technologies, LLC, however, makes no representations as to the completeness or accuracy of this information and supplies it on the condition that the persons receiving same will make their own determination as to its suitability for their purpose prior to use. In no event will Pentron® Laboratory Technologies, LLC be responsible for damages of any nature whatsoever resulting from the use of or reliance upon this information.

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# Sculpture® Plus Di Spacer MSDS

## Section 1: Product and Company Identification

Product Name: Sculpture® Plus Di Spacer

Material Safety Sheet Number: 00198

Date of Issue: 03/08/03

Revision Date: Not applicable

### Company Identification:

Pentron® Laboratory Technologies, LLC

P.O. Box 724, Wellingford, CT U.S.A. 06492

Phone: 800-243-3100 / 203-265-7397

Emergency Information Chemtrec: 800-424-9300

Chemtrec International: 202-483-7616

## Section 2: Composition/Information on Ingredients

**Chemical Characteristics:** Mixture of Ammonia, Ammonia hydroxide, Latex solids, water

**Description:** A spacer used to procure cement space

**Hazardous Components:** None known

## Section 3: Hazard Identification

**Risk Identification:** None known

**Special Risks for Human Beings and Environment:** None known. Some persons may be sensitive to latex component.

**Classification:** Classification corresponds to actual EEC guidelines.

## Section 4: First Aid Measures

### General Information:

**After skin contact:** Wash with soap and water, consult physician if irritation occurs.

**After eye contact:** Flush with water for 15 minutes, including under eyelids. Consult an Ophthalmologist.

**After swallowing:** Do not induce vomiting. If conscious, give lots of water, get immediate medical attention.

## Section 5: Fire Fighting Measures

**Extinguishing Media:** Water, CO<sub>2</sub> or dry chemical for dried film

**Protective Equipment:** Self-contained breathing apparatus

## Section 6: Accidental Release Measures

**Personal Precautions:** Protective vinyl or rubber gloves

**Environmental Precautions:** Unknown

**Methods for Cleaning Up:** Confine spill to prevent contamination of sewer system or ground water. Absorb liquid with appropriate absorbent. Spills will cause slippery condition. If spill is on clothing or rug, wash (if possible) immediately to prevent curing on fabric. Rinse several times to completely remove. Dry with absorbent paper towels - dispose of properly.

## Section 7: Handling and Storage

**Storage:** Store in a cool place. Avoid temperature extremes. Keep from freezing. Keep container sealed. Avoid prolonged contact with skin. Wash immediately before eating.

## Section 8: Exposure Controls/Personal Protection

**Personal Protective Equipment:** Protective gloves, goggles are recommended.

**General Measure of Protection and Hygiene:** Normal hygienic measures

**Respiration:** Use adequate general and local ventilation

**Hands:** Protective gloves

**Eyes:** OSHA approved chemical safety goggles

## Section 9: Physical and Chemical Properties

### Appearance:

**Form:** Viscous paste

**Color:** Light Tan

**Odor:** Slight ester-like odor

### Information on Change in the Physical State:

**Melting point/softening range:** Not applicable

**Boiling point/boiling range:** Not applicable

**Flash point:** Not flammable

**Autoignition temperature:** Unknown

**Danger of explosion:** Not likely

**Specific Gravity:** 0.98 g/cm<sup>3</sup>

**Vapor pressure at 25°C:** Same as water

**Viscosity:** Paste

**pH:** Not applicable

**Solubility with water:** Miscible

## Section 10: Stability and Reactivity

**Stability:** Unstable when bottle is left open

**Hazardous Decomposition Products:** Thermal decomposition may produce toxic gas

**Hazardous Polymerization:** Just dried

## Section 11: Toxicological Information

**Allergic Reaction:** Persons with known sensitivity to latex

**Acute Toxicity:** Not available

**Primary Irritation:**

**Skin Contact:** Yes Skin absorption: Unknown.

**Eye:** Irritating

**Inhalation:** Non volatile

**Ingestion:** Possibly toxic when swallowed

**Sensitization of Product:**

**Additional Toxicological Information:** Non-mutagenic

## Section 12: Ecological Information

**General Information:** Unknown

**Classification of Water Endangerment:** Unknown

## Section 13: Disposal Considerations

Use proper landfill disposal or incineration in accordance with local, state, and federal regulations.

## Section 14: Transport Information

No special precautions necessary

## Section 15: Regulatory Information

**Classification According to EEC Guidelines:** No classification necessary to actual EEC guidelines.

## Section 16: Other Information

**Revision Summary:** No revisions have been made.

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# ORIGINAL MATERIAL

## MATERIAL SAFETY DATA SHEET

Jeneric/Pentron Inc.  
P.O. Box 724  
Wallingford, CT 06492  
800-243-3100  
24 Hour Information Chemtrec: 800-424-9300  
Telephone Number for information: 800-243-3100  
Information Provided By: Weitao Jia, BDS, MS  
Prepared By: dg

MSDS Number: 0311974  
CAS Number: Mixture  
Date prepared: 03/11/97  
Date update:

### SECTION I: Material Identification & Hazard Components

#### Material Name

**Conquest®/Sculpture™- Body, Opaceous Body, Color Modifiers, Chroma Modifiers, Incisals, Effects, Necks, Gingivals**

### SECTION I (A) Ingredients

Formulae: The specific chemical identity of the ingredient compounds is considered proprietary.

Cas. No.: Dental filled resin composite, visible light and heat vacuum Curable polymer blend resins

Chemical Family: Dental grade functional oligocarbonate dimethacrylic esters, FDA & FDC approved pigments and silica filled.

### SECTION I (B): Hazards

Avoid eye contact.

Avoid ingestion.

Avoid prolonged contact with skin, mucous membrane and oral mucosa while composite restorative material is in unpolymerized state.

### SECTION II: Physical/Chemical Characteristics

Water Solubility - None

Specific Gravity - 1.95 gm/cc

Appearance and Odor - Viscous, colored dental composite filled resin, odorless. Visible light cure. Polymerization will occur between 400-700 nm light wave length and premature gelling at elevated temperature  $\geq 140^{\circ}\text{F}$  ( $60^{\circ}\text{C}$ ).

### SECTION III: Fire & Explosion Hazard Data

Flash Point and Method -  $> 300^{\circ}\text{F}$  ( $149^{\circ}\text{C}$ ), material will congeal, semisolid phase (rubbery) at/below  $40^{\circ}\text{F}$  ( $4^{\circ}\text{C}$ ).

Autoignition Temperature - Between 400-800°F (204-427°C).

Extinguishing Media - Deprive of oxygen, allow to extinguish. Use foam/sand/vermiculite/soda ash for absorbance and fire deterrenc

Special Fire Fighting Procedures - Fire fighters should wear full protective clothing and gear including a self-containing breathing apparatus,  $\text{CO}_2$ , hydrocarbons, methacrylate vapors liberate when ignited.

**SECTION IV: Reactivity Hazard Data**

Reactivity in water - None in polymerized/hardened state - insoluble.  
Negligible trace amount water sorption - long term. Avoid moisture contamination or premature visible light exposure in unpolymerized state.  
Conditions to Avoid: Heat, sparks and open flames.  
Incompatibility: Acids, oxidizing agent, alkalines, amines.

**SECTION V: Health Hazard Information TLV (see section II)**

Flush eyes 15 min. with water, consult an ophthalmologist immediately. Rinse/flush under physician care with alkaline/saline solution. Remove copious amounts of water and paper towel when in contact with skin. Ingestion: consult a physician immediately, allow normal vomiting and fresh air. Administer oxygen/perform CPR if required

**SECTION VI: Control and Protective Measures**

Collect by mechanical means after binding with absorbing material (saw dust/sand/vermiculite, soda ash, etc.) and dispose appropriately. Remove the residues with paper towel. Wear protective clothing, lab coat, goggles, gloves.

**SECTION VII: Precautions for Safe Handling and Use/Leak Procedures**

Ventilation: YES      Local Exhaust: YES

Goggles, gloves, intraoral rubber dam - recommended. Use fresh disposable brush tips with each patient - avoid cross contamination. Sterilize, autoclave and alcohol rinse all operative tools.

Store cool and dry at or below room temperature 73°F, 23°C, refrigerate preferably. Avoid visible light exposure - premature gelling/polymerization hardening between 400-700 nm wavelength. Avoid moisture contact in the unpolymerized state, acid, alkalies, salts, metals (except stainless steel instruments or dental alloy restorations, amines, peroxide catalysts and alcohol. Cap vials after usage and intermittently. Avoid prolonged skin, mucous membrane, oral mucosa and gingiva (gum tissue) contact. Avoid eye contact. Allow to bench rest and attain room temperature prior to usage.

**MATERIAL SAFETY DATA SHEET**

Jeneric/Pentron Inc.  
P.O. Box 724  
Wallingford, CT 06492  
800-243-3100

MSDS Number: 0311972  
CAS Number: 67-64-1  
80-62-6  
Date prepared: 03/11/97  
Date update:

24 Hour Information Chemtrec: 800-424-9300  
Telephone Number for information: 800-243-3100  
Information Provided By: Arun Prasad, Ph.D.  
Prepared By: dg

**SECTION I: Material Identification & Hazard Components**

Material Name

Conquest®/Sculpture™ - LP Glaze

**SECTION I (A) Ingredients**

Proprietary mixture of various methacrylates with acetones and light curing activators.  
Chemical Family : Acrylates and methacrylates in acetone

**SECTION I (B): Hazardous Ingredients**

Acetone < 50%  
Methyl methacrylate < 12%

**SECTION II: Physical/Chemical Characteristics**

Solubility in Water - None  
Specific Gravity - 1.03 gm/cc  
Appearance and Odor - Viscous liquid with acetone and MMA odor  
Color - Colorless  
Visible Light Cure: Polymerization will occur between 400 - 700 nm wavelength

**SECTION III: Fire & Explosion Hazard Data**

Flash Point: -26°C (15°F), Autcognition temperature = 1000°F  
Fire fighters should wear full protective clothing and gear including a self-contained breathing apparatus, CO<sub>2</sub>, hydrocarbons and methacrylate vapors liberated upon ignition.  
Use sand/vermiculite/soda ash/foam/ for absorbance and fire deterrence.

**SECTION V: Health Hazard Data**

Primary routes of entry: Eyes, Skin or Inhalation

Carcinogenicity: None of the components of this material are listed by IARC, NTP &

OSHA, or ACGIH as a carcinogen.

Threshold limit value (TLV): For monomer: N.A.

**FIRST AID:**

Inhalation: Remove to fresh air. Get medical help if discomfort persists.

Eyes: Flush with water for 15 minutes. Including under eyelids. Consult an ophthalmologist.

Skin: Wash with soap and water, consult a physician if irritation occurs.

Ingestion: Do not induce vomiting. If conscious, give lots of water, get immediate medical attention.

**SECTION VI: Control & Protective Measures**

Respiratory protection: None in normal use.

Eye Protection: Goggles

Protective gloves: Rubber gloves

Work/hygienic practices: Observe normal care for working with chemicals.

**SECTION VII: Precautions for Safe Handling & Use/Leak Procedures**

In case material is released or spilled: Mop or wipe up and dispose in UN approved waste containers.

Waste disposal method: May be incinerated according to Federal, State and local regulations.

**SECTION VIII: Special Precautions**

Do not breathe mists or vapors. Store in cool dry place. Keep container closed to prevent contamination.

Wash thoroughly after use and before eating or smoking.

## MATERIAL SAFETY DATA SHEET

Jeneric/Pentron Inc.  
P.O. Box 724  
Wallingford, CT 06492  
800-243-3100

MSDS Number: 0311975  
CAS Number: MIXTURE  
Date prepared: 03/11/97  
Date update:

24 Hour Information Chemtrec: 800-424-9300  
Telephone Number for information: 800-243-3100  
Information Provided By: Weitao Jia, BDS, MS  
Prepared By: dg

### SECTION I: Material Identification & Hazard Components

#### Material Name

Conquest®/Sculpture™- Color Concentrate

### SECTION I (A) Ingredients

A mixture of dental grade functional oligocarbonate dimethacrylate, BisGMA, UDMA and TEGDMA with FDA & FDC approved pigments and silica,UV Stabilizer, polymerization initiators.

Chemical Family: Functional methacrylic esters.

### SECTION I (B): Hazards

None Known.

Avoid contact with eyes, skin and mucous membrane.

### SECTION II: Physical/Chemical Characteristics

Specific Gravity: 1.12 g/cc

Solubility in Water: None

Appearance and Odor: Vary by color and ester-like. Polymerization will occur between 400-700 nm light wavelength and premature gelling at elevated temperature.

### SECTION III: Fire & Explosion Hazard Data

Flash Point: 300°F (149°C)

Autoignition Temperature: 400-800°F (204-427°C)

Firefighters should wear full protective clothing and gear.

Extinguishing Method: Chemical foam, carbon dioxide, dry chemical and water.

### SECTION IV: Reactivity Hazard Data

Stability: Stable. Avoid heat and ignition sources, aging and contamination.

Incompatibility: Strong oxidizing and reducing agents and UV light.

**SECTION V: Health Hazard Information TLV (see section II)**

Routes of Entry: inhalation/ ingestion and skin.

Carcinogenicity: NTP: Not listed

IARC Monographs: not listed

OSHA Regulated: Not listed

**FIRST AID:**

Eyes: Immediately flush eyes with eyelids retracted with plenty of water for 15 min, Consult an ophthalmologist if needed.

Skin: Immediately wash with soap and water, remove contaminated clothing, consult a physician if irritation occurs.

Inhalation: Remove from source of exposure, Consult a physician.

Ingestion: Do NOT induce vomiting. Consult a physician.

**SECTION VI: Control and Protective Measures**

Respiratory Protection: Face mask recommended for prolonged exposure.

Eye Protection: Goggles recommended

Protective gloves: Yes

**SECTION VII: Precautions for Safe Handling and Use/Leak Procedures**

In case of spillage: Absorb with inert material, Collect in closed containers and dispose as recommended. Avoid skin contact, wear protective equipment. Waste Disposal:

Incineration according to Federal, State and Local regulations in a approved incineration unit.

**SPECIAL PRECAUTIONS**

Store material below 80°F away from direct sunlight, initiators, oxidizing and/or reducing agents. After expiration of storage time, spontaneous polymerization may occur.

**SECTION IV: Reactivity Hazard Data**

Reactivity in water: None in unpolymerized or polymerized hardened state - insoluble. Negligible trace amount water sorption - long term. Soluble in absolute alcohols; ethanol, methanol, acetone, etc. Avoid moisture contamination or premature visible light exposure in unpolymerized state.

**SECTION V: Health Hazard Data****Emergency First Aid Procedures -**

**EYE/SKIN:** Flush eyes 15 minutes with water, consult an ophthalmologist immediately. Rinse/flush under physician care with alkaline/saline solution. Remove with paper towel and alcohol when in contact with skin - hypersensitive reaction may occur.

**INGESTION:** Consult physician immediately, allow normal vomiting and fresh air. Composite material is radiopaque/x-ray detectable.

**Biocompatibility:** Not reactive. "Biocompatible" in human blood hemolysis, eye irritation, intracutaneous, subcutaneous and intraoral toxicity extract injection tests, intramuscular implants and mucous membrane irritation implant tests.

**Cytotoxicity:** Not cytotoxic.

**SECTION VI: Control & Protective Measures**

Ventilation - Yes

Local Exhaust - Yes

Isolation - Goggles, gloves, intraoral rubber dam, cotton rolls, mylar forms and retraction cords recommended. Use fresh aliquots of composite with each patient - avoid instrument cross contamination. Sterilize, autoclave and alcohol rinse all operative tools.

**SECTION VII: Precautions for Safe Handling & Use/Leak Procedures**

Steps to be taken if material is spilled or released: Collect by mechanical means after binding with absorbing material (saw dust/sand/vermiculite/soda ash, etc.) and dispose appropriately. Remove the residues with paper towel. Wear protective clothing, lab coat, goggles, face mask and gloves.

**SECTION VIII:**

Store cool and dry at or below room temperature, 68°F, 20 °C, refrigerate preferably. Avoid visible light exposure - premature gelling/polymerization hardening will occur between 400-700 nm light wavelength, i.e.: Halogen, white/blue light. Avoid moisture contact in the unpolymerized state, acid, alkalies, salts, metals (except stainless steel alloy instruments), amines, peroxide catalysts, alcohols; oils, fluorides, eugenol containing materials, ferric sulfate or aluminum chloride containing astringents and preimpregnated retraction cords. Cap syringes after usage and intermittently. Avoid instrument cross-contamination. Avoid prolonged skin, mucous membrane, oral mucosa and gingival (gum tissue) contact. Avoid eye contact. Avoid eye irritation. Allow to bench rest and attain room temperature prior to usage upon removal from refrigerator (approx. 30 min. rest period).